

SEQUENCE LISTING

<110> Curiel, David T.
 Krasnykh, Victor N.
 Dmitriev, Igor

<120> Adenovirus Vector Containing A Heterologous Peptide
 Epitope in the HI Loop of the Fiber Knob

<130> D6080

<140>

<141> 1999-02-05

<150> US 60/099,801

<151> 1998-09-10

<160> 17

<210> 1

<211> 28

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> Forward primer F1 used to generate a gene encoding
 the Ad5 fiber knob domain with the HI loop deleted.

<400> 1

taaggatccg gtgccattac agtaggaaac aaaaataa 28

<210> 2

<211> 43

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> Reverse primer R1 used to generate a gene encoding
 the Ad5 fiber knob domain with the HI loop deleted.

<400> 2

catagagtat gcagatatcg ttagtgttac aggttttagtt ttg 43

<210> 3

<211> 42
 <212> DNA
 <213> artificial sequence
 <220>
 <221> primer_bind
 <223> Forward primer F2 used to generate a gene encoding
 the Ad5 fiber knob domain with the HI loop deleted.
 <400> 3

gtaacactaa cgatatctgc atactctatg tcattttcat gg 42

<210> 4
 <211> 41
 <212> DNA
 <213> artificial sequence
 <220>
 <221> primer_bind
 <223> Reverse primer R2 used to generate a gene encoding
 the Ad5 fiber knob domain with the HI loop deleted.
 <400> 4

cccaagctta caattgaaaa ataaacacgt tgaaacataa c 41

<210> 5
 <211> 63
 <212> DNA
 <213> artificial sequence
 <220>
 <223> Oligonucleotide annealed with SEQ ID NO: 6 to form a
 duplex and cloned into *EcoRV*-digested pQE.KNOBDHI.
 <400> 5

tacactaaac ggtacccagg aaacaggaga cacaactgac tacaaggacg acgatgacaa 60
 gcc 63

<210> 6
 <211> 63
 <212> DNA
 <213> artificial sequence

<220>

<223> Oligonucleotide annealed with SEQ ID NO: 5 to form a duplex and cloned into *EcoRV*-digested pQE.KNOBDHI.

<400> 6

ggcttgtcat cgtcgtcctt gtagtcagtt gtgtctcctg tttcctgggt accgtttagt 60
gta 63

<210> 7

<211> 29

<212> DNA

<213> artificial sequence

<220>

<223> Oligonucleotide used in synthetic duplex which encodes MetHis₆Lys.

<400> 7

gatccatgca tcaccatcac catcacaag 29

<210> 8

<211> 29

<212> DNA

<213> artificial sequence

<220>

<223> Oligonucleotide used in synthetic duplex which encodes MetHis₆Lys.

<400> 8

cgcgcttgatg atggtgatgg tgatgcatg 29

<210> 9

<211> 16

<212> DNA

<213> artificial sequence

<220>

<223> An *NdeI*-*SwaI* linker ligated to plasmid pTG3602 after partial digestion of the plasmid with *NdeI*.

<400> 9

tacccattta aatggg

16

<210> 10

<211> 66

<212> DNA

<213> artificial sequence

<220>

<223> Oligonucleotide in duplex cloned into *EcoRV* site
of plasmid pQE.KNOBDHI generating pQE.KNOB.RGD_{HI}.

<400> 10

cacactaaac ggtacacagg aaacaggaga cacaacttgt gactgccgcg gagactgttt 60
ctgccc 66

<210> 11

<211> 66

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> Oligonucleotide in duplex cloned into *EcoRV* site
of plasmid pQE.KNOBDHI generating pQE.KNOB.RGD_{HI}.

<400> 11

gggcagaaac agtctccgcg gcagtcacaa gttgtgtctc ctgtttcctg tgtaccgttt 60
agtgtg 66

<210> 12

<211> 41

<212> DNA

<213> artificial sequence

<220>

<223> Oligonucleotide in synthetic duplex used to
replace 41 bp *PacI*-*ClaI*-fragment in pcDNA.Luc,
generating pcLucPC1.

<400> 12

caaatacaaa ggatatcagg tggcccccg c tgaattggag t 41

<210> 13
 <211> 45
 <212> DNA
 <213> artificial sequence
 <220>
 <223> Oligonucleotide in synthetic duplex used to
 replace 41 bp *PacI*-*ClaI*-fragment in pcDNA.Luc,
 generating pcLucPC1.
 <400> 13

cgactccaat tcagcggggg ccacctgata tcctttgtat ttgat 45

<210> 14
 <211> 13
 <212> PRT
 <213> artificial sequence
 <220>
 <223> Amino acid sequence deleted from the HI loop of
 the fiber knob domain and replaced with a
 unique *EcoRV* site.
 <400> 14

Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp Thr Thr Pro
 5 10

<210> 15
 <211> 8
 <212> PRT
 <213> artificial sequence
 <220>
 <223> Amino acid sequence of the FLAG octapeptide.
 <400> 15

Asp Tyr Lys Asp Asp Asp Asp Lys
 5

<210> 16
 <211> 9
 <212> PRT

<213> artificial sequence

<220>

<223> Amino acid sequence of a RGD peptide incorporated
into the region of the fiber gene within the HI loop.

<400> 16

Cys Asp Cys Arg Gly Asp Cys Phe Cys

5

<210> 17

<211> 13

<212> PRT

<213> artificial sequence

<220>

<223> Amino acid sequence of peptide replacing the
RGD coding sequence.

<400> 17

Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp Thr Thr Pro

5

10

655020" E0954260